| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|------------------------------|---|-------------------|--|---|--|
| Plant Species | | | | | |
| Kuenzler hedgehog cactus | Echinocereus fendleri var. kuenzleri | FE NM End | - occurs in piñon-juniper/grass mountain habitats | present, known to occur in the Elk/Mayhill area, Otero County | present |
| Sacramento prickly poppy | Argemone pleiacantha ssp. pinnatisecta | FE | - occurs in riparian and arroyo habitats | present, known to occur in the Sacramento Escarpment | present, distribution narrowly extends outside the Sacramento Escarpment ACEC |
| Todsen's pennyroyal | Hedeoma todsenii | FE w/CH NM End | occurs in piñon-juniper grass mountain habitats critical habitat has been designated in Otero County | present, known to occur in the Sacramento Mountains south of Bent | present |
| Sacramento Mountains thistle | Cirsium vinaceum | FT | endemic to the Sacramento Mountains where it grows on travertine deposits of natural springs occurs in montane coniferous forest and subalpine grassland habitats | present, known to occur in the Sacramento Mountains | unlikely occurrence, habitat range is outside of Decision Area |
| Goodding's onion | Allium gooddingii | С | - occurs in montane and subalpine coniferous forests | present, known to occur in the Sacramento Mountains | unlikely occurrence, habitat range is outside of Decision Area |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|------------------------------|-------------------------|----------------------|--|--|---|
| Alamo beardtongue | Penstemon alamosensis | SC BLMS | - occurs in mixed shrub hill and arroyo habitats | present, known to occur in the Sacramento Escarpment | unlikely occurrence, distribution does not extend outside Sacramento Escarpment ACEC and therefore is not in the Decision Area |
| Duncan's cory cactus | Coryphantha duncanii | SC NM End BLMS | - occurs in creosote hill and mixed shrub mountain habitats | present, known to occur in the Mud Mountains | present |
| Glass Mountain coral-root | Hexalectris nitida | SC NM End BLMS | - occurs in grass mountain habitats | present, known to occur on private land in the Cornudas Mountains | present |
| Gypsum scalebroom | Lepidospartum burgessii | SC NM End BLMS | - occurs in salt flat habitats | present, within New Mexico, only occurs in the Guadalupe Ranch, Otero County | unlikely occurrence, distribution does not extend outside the Alkali Lakes ACEC and is therefore not in the Decision Area |
| Sandhill goosefoot | Chenopodium cycloides | SC | - occurs in grasslands and semi- desert grasslands | unlikely occurrence, not known to occur in Sierra or Otero Counties | unlikely occurrence |
| Sierra Blanca cliffdaisy | Chaetopappa elegans | SC | occurs in montane coniferous forest habitats on igneous outcrops endemic to the Sacramento Mountains | present, known to occur in the Sacramento Mountains | unlikely occurrence, habitat is not present in the Decision Area |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|------------------------------|---|----------------------|---|--|---|
| Villard's pincushion cactus | Escobaria villardii | SC NM End BLMS | occurs in mixed shrub hill habitats. endemic to the Sacramento Escarpment | present, known to occur only in the Sacramento Escarpment ACEC | unlikely occurrence, distribution does not extend outside the Sacramento Escarpment ACEC and is therefore not in the Decision Area |
| Wright's marsh thistle | Cirsium wrightii | SC | - occurs in springs and cienegas | present, potential distribution includes the base of the Sacramento Escarpment from Three Rivers to Alamogordo | potential occurrence |
| Desert night-blooming cereus | Cereus greggii var. greggii | SC NM End BLMS | - occurs in creosote rolling uplands and arroyo riparian habitats | potential occurrence | potential occurrence |
| Guadalupe rabbitbrush | Chrysothamnus nauseosus var. texensis | SC BLMS | - occurs in grass mountain habitats | present, known to occur in the Brokeoff Mountains and Guadalupe Mountains | present |
| Pinos Altos flameflower | Talinum humile | SC | - occurs in Chihuahua desert scrub habitats | unlikely occurrence | unlikely occurrence |
| Fish hook barrel cactus | Ferocactus hamatacanthus var. hamatacanthus | BLMS | - occurs in mixed shrub hill habitats | present, known to occur just west of the Cornudas Mountains | present |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|------------------------------------|--|--------------------|--|---|--|
| Grama grass cactus | Toumeya papyracanthus | BLMS | - occurs in grama grasslands and alkali sacaton on gypsum soils | present, known to occur in Guadalupe Ranch, McGregor Range, Lake Holloman south to Tres Hermanas | present |
| Guadalupe Mountains mescal bean | Sophora gypsophila var. guadalupensis | BLMS | - occurs in grass mountain and arroyo habitats | present, known to occur in the Brokeoff Mountains | present |
| Sheer's cory cactus | Coryphantha scheeri var. uncinata | NM End | - occurs along the creosote breaks of the Rio Grande | present, known to occur along the breaks of the Rio Grande as far north as Mud Mountain | present |
| Gray sibara | Sibara grisea | LCFOS Sensitive | - occurs in grass mountain habitats, typically in cliff habitats | present, known to occur in the Sacramento Escarpment and the Brokeoff Mountains | present |
| Gypsum blazingstar | Mentzelia humilis var. guadalupensis | LCFOS Sensitive | - occurs on gypsum outcrops | present, known to occur near or at Pup Canyon, Otero County | present |
| Gypsum ringstem | Anulocaulis gypsogenus var. howardii | LCFOS Sensitive | - occurs on gypsum outcrops in mixed shrub mountain habitats | present, known to occur near or at Pup Canyon, Otero County | present |
| Roetter's hedgehog cactus | Echinocereus x Roetteri var. Roetteri | LCFOS Sensitive | - occurs in Chihuahuan desert scrub and semidesert grassland habitats | present, known to occur as a large hybrid population in the Jarilla Mountains at Orogrande | present |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|---------------------------|-------------------------|----------------------------|---|---|--|
| Mosquito plant | Agastache cana | NM Rare | - occurs in cold adapted evergreen woodland at intermediate elevations | present, known to occur in Sierra and Otero Counties | known to occur in Percha Creek nominated ACEC |
| Animal Species | | | | | |
| American peregrine falcon | Falco peregrinus anatum | NM End BLM Sensitive | nests in cliff areas and forages near water as well as a variety of desert and woodland-brushland habitats | present, forages in most habitat types. Potential nesting habitat exists in vicinity of Sacramento Escarpment. Other areas of potential nesting habitat occur on Wind Mountains, Cornudas Mountains, and Alamo Mountain, Guadalupe Rim, Brokeoff Mountains, San Andreas Mountains, Caballo Mountains, and Black Range | present |
| Black-footed ferret | Mustela nigripes | FE | occurs in grass flat and grass rolling upland habitats not believed to have occurred in Sierra and Otero Counties (Hubbard and Schmitt 1983) | unlikely occurrence, considered to be extirpated from New Mexico; potential recovery habitat is considered unlikely due to the small size of the prairie dog towns | unlikely occurrence |
| Brown pelican | Pelecanus occidentalis | FE | usually occurs in marine habitats in warm waters and rarely occurs inland | present, occasional transient birds have been documented | Unlikely occurrence in Decision Area |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|--------------------------------|------------------------------------|--------------|--|--|---|
| Gila trout | Oncorhynchus gilae | FE | small, cool, clear mountain streams, along which riparian vegetation provides a fairly complete canopy deep pools are important for survival of the fish during drought | present, populations occur in headwater streams of the Gila River and San Francisco River drainages in the Gila National Forest | Unlikely occurrence, populations are restricted to the Gila River Drainage west of the Black Range and are not in the Rio Grande drainage. |
| Interior least tern | Sterna antillarum | FE | nests on sandbars, reservoir shoreline, and alkaline flats colonial nester | present, known to occur on the Gila National Forest, Lake Holloman, and McGregor Range (incidental occurrence - no breeding habitat present) | Potential occurrence, may occur on the playas south of Holloman Air Force Base |
| Northern aplomado falcon | Falco femoralis septentrionalis | FE NM End | occurs in grass flats, grass rolling uplands, and salt flats habitats grasslands of Otero Mesa are considered essential habitat for recovery | potential occurrence, dispersing individuals from Mexico may utilize grasslands in Otero County | potential occurrence |
| Whooping crane | Grus americana | FE | during the winter, whooping cranes roost on sand bars and forage in agricultural fields and valley pastures | potential occurrence, during fall and winter, whooping cranes may occur in middle Rio Grande Valley | unlikely occurrence, whooping cranes are unlikely to use habitats in the Decision Area |
| Southwestern willow flycatcher | Empidonax traillii extimus | FE w/PCH | occurs in high quality riparian habitat with cottonwoods and willows, and occasionally salt cedar | potential occurrence, although field surveys have not identified any individuals | potential occurrence |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|----------------------------------|-------------------------------------|--------------|---|--|---|
| Bald eagle | Haliaeetus leucocephalus | FT NM Thr | occurs in riparian, arroyo, grass flat, grass rolling upland, and creosote rolling upland habitats | present, a nest site is present on private land in Sierra County; winter roosting occurs on Lincoln National Forest | present, known to roost and forage in the Decision Area. |
| Mexican spotted owl | Strix occidentalis lucida | FT | forages in a variety of woodland- brushland and desert habitats. Nests in dense coniferous forests on Lincoln National Forest | present, known to occur in Lincoln National Forest; primary activity centers are identified on Lincoln National Forest | present, known to forage in areas adjacent to Lincoln National Forest |
| Arizona black-tailed prairie dog | Cynomys ludovicianus arizonensis | C (BLMS) | - occurs in grass flats and grass rolling uplands habitats | present, known to occur in Otero County; historically occurred in Sierra County | present, known to occur in Otero County |
| Chiricahua leopard frog | Rana chiricahuensis | C BLMS | occurs in a variety of permanent aquatic habitats including thermal springs and seeps, stock tanks, wells, intermittent rocky creeks, and mainstream river reaches occurs at elevations from 3,280 to 8,530 feet | present, known to occur in Gila and San Francisco river drainages as well as the Cuchillo Negro Creek, Palomas Creek, and the Seco Creek in Sierra County; potential occurrence in Percha Creek and Animas Creek | potential occurrence |
| Mountain plover | Charadrius montanus | PT | - occurs in grass flats and grass rolling uplands habitats | present, known to occur on McGregor Range and on Otero Mesa | present |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|---------------------------|-----------------------------------|------------|---|--|--|
| Arizona southwestern toad | Bufo microscaphus microscaphus | SC BLMS | occurs in riverine and lacustrine wetland habitats | present, known to occur in the Gila and Cibola National Forests | potential occurrence, although known distribution range is not within the Decision Area |
| Baird's sparrow | Ammodramus bairdii | SC BLMS | occurs in grass and mesquite flats and rolling uplands, salt flats, and arroyo habitats | present | present |
| Big free-tailed Bat | Nyctinomops macrotis | SC BLMS | primarily occurs in coniferous and mixed woodland habitats and depends on rocky cliffs for roosting | present, known to occur in the Gila and Lincoln National Forests, White Sands Missile Range, and McGregor Range | present |
| Black tern | Chlidonias niger | SC BLMS | - breeds and feeds along vegetated marshes with open water | present, known to occur in the White Sands Missile Range, and McGregor Range | potential occurrence |
| Cave myotis | Myotis velifer | SC BLMS | primarily occurs in desert and lower grasslands but also in piñon-juniper woodlands | present, known to occur in the Gila and Lincoln National Forests, White Sands Missile Range, and McGregor Range | present |
| Desert bighorn sheep | Ovis canadensis mexicana | NM End | occurs in arid, rocky mountains in open areas with piñon-juniper to desert scrub habitats | unlikely occurrence, animals previously reintroduced into Sierra County are no longer present | unlikely occurrence |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|-----------------------------|--------------------------------|------------|--|---|---|
| Desert pocket gopher | Geomys bursarius arenarius | SC BLMS | - occurs in lowland areas with loamy, sandy soil | present, known to occur in the vicinity of Alamogordo and Tularosa | present |
| Desert sucker | Catostomus clarki | SC BLMS | - occurs in rapids and flowing streams, except in extreme headwater situations | present, known to occur in the Gila National Forest | unlikely occurrence, may occur outside the Gila National Forest but not within the Decision Area |
| Ferruginous hawk | Buteo regalis | SC BLMS | occurs in a wide variety of desert habitats as well as piñon- juniper/grass mountain habitats | present | present |
| Fringed myotis | Myotis thysanodes | SC BLMS | occurs in mid elevation grasslands, desert, oak and piñon woodlands, as well as high elevation spruce-fir forests | present, known to occur in Cibola, Gila, and Lincoln National Forests, White Sands Missile Range, and McGregor Range | present |
| Gray-footed chipmunk | Tamias canipes | SC BLMS | - occurs in grass mountain, piñon juniper/grass mountain, and arroyo habitats | present, known to occur in the Lincoln National Forest, Guadalupe Mountains, and piñon-juniper habitat adjacent to McGregor Range | present |
| Greater western mastiff bat | Eumops perotis californicus | SC BLMS | occurs in riparian and foothill habitats roosts in high, steep cliffs | unlikely occurrence, not known to occur in Sierra or Otero Counties; few records in New Mexico | unlikely occurrence |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|----------------------------------|----------------------------------|------------|---|---|---|
| Guadalupe southern pocket gopher | Thomomys bottae guadalupensis | SC BLMS | occurs in areas with loamy soil in a variety of habitats ranging from arid lowlands to mountains | present, known to occur in the Guadalupe Mountains | present |
| Loggerhead shrike | Lanius ludovicianus | SC BLMS | - occurs in a variety of shrub and grass habitats | present | present |
| Long-legged myotis | Myotis volans | SC BLMS | - primarily occurs in ponderosa pine and piñon-juniper habitats, as well as grassland habitats | present, known to occur in Cibola, Gila, Lincoln National Forests, White Sands Missile Range, and McGregor Range | present |
| Long-eared myotis | Myotis evotis | SC BLMS | - occurs in piñon and ponderosa pine habitats | present, known to occur in Gila and Cibola National Forests | present |
| Longfin dace | Agosia chrysogaster | SC BLMS | habitat ranges from clear, cool mountain brooks to small intermittent desert streams with a sand or gravel substrate | present, occurs in Gila and San Francisco River drainages | present, known to occur in Percha Creek |
| Mineral Creek mountain snail | Oreohelix pilsbryi | SC | - occurs in an extremely small area along Mineral Creek | present, known to occur near Chloride on Mineral Creek | present |
| Neotropic cormorant | Phalacrocorax brasilianus | NM Thr | generally occurs in larger bodies of water, such as reservoirs preys on fish require stands of trees or shrubs in or near water | present, known to nest at the Elephant Butte and Caballo Reservoirs; occasionally occurs near Alamogordo | potential occurrence, may occur as a vagrant species in the Decision Area |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|--------------------------------------|--------------------------------------|----------------------|--|--|---|
| New Mexican jumping mouse | Zapus hudsonius luteus | SC NM Thr BLMS | - occurs in riparian habitats | present, known to occur in the Sacramento Mountains in the Cloudcroft area | potential occurrence |
| Northern goshawk | Accipiter gentilis | SC BLMS | - utilizes forest, woodland, and shrubland habitats | present, known to occur in and adjacent to Lincoln and Gila National Forests | present |
| Occult little brown bat | Myotis lucifugus occultus | SC BLMS | occurs in ponderosa pine and mixed conifer forest habitats, as well as piñon-juniper habitats | present, known to occur in Cibola, Gila, and Lincoln National Forests | present |
| Organ Mountains Colorado chipmunk | Eutamias quadrivittatus australis | SC BLMS | - endemic to the Organ Mountains | present | unlikely occurrence |
| Pale Townsend's big-eared bat | Plecotus townsendii pallescens | SC BLMS | occurs in grass mountain, piñon- juniper, and arroyo habitats strongly associated with caves | present, known to occur in Cibola, Gila, and Lincoln National Forests, White Sands Missile Range, and McGregor Range | present |
| Sacramento Mountains salamander | Aneides hardii | SC | - occurs in higher elevation sites characterized by Douglas-fir, true firs, spruces, and some pines with substantial canopy cover | present, known to occur only in the Sacramento, White, and Capitan Mountains | unlikely occurrence, required habitat is not present in the Decision Area |
| Small-footed myotis | Myotis ciliolabrum | SC BLMS | - occurs in creosote rolling upland habitats | present | present |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|-----------------------|--|------------|---|--|---|
| Sonora sucker | Catostomus insignis | SC BLMS | occurs in a variety of habitats from warm rivers to trout streams | present, known to occur in the Gila River drainages in the Gila National Forest | unlikely occurrence, distribution is restricted to the Gila River |
| Southwestern otter | Lutra canadensis sonorae | SC | - inhabits permanent riparian habitats | unlikely occurrence, considered to be extirpated from New Mexico | unlikely occurrence |
| Speckled dace | Rhinichthys osculus (Gila drainage) | SC | - occurs in shallow, rocky, headwater streams with relatively swift flow | present, known to occur in the Gila River drainages in Gila National Forest | unlikely occurrence, distribution is restricted to the Gila River |
| Spotted bat | Euderma maculatum | SC BLMS | - occurs in grass flats, grass mountain, piñon-juniper/grass mountain, and riparian habitats | present, known to occur in Sierra County | present |
| Texas horned lizard | Phrynosoma cornutum | SC BLMS | - occurs in a variety of shrub, grass, and salt flat habitats | present | present |
| Western burrowing owl | Speotyto cunicularia hypugea | SC BLMS | occurs in grassland habitats nest in abandoned burrows of prairie dogs, ground squirrels, woodchucks, foxes, and badgers | present | present |
| White-faced ibis | Plegadis chihi | SC BLMS | occurs in grass flat, salt flat, and riparian habitats nests in shoreline and marsh habitats bordered by open water | present, known to occur in the Gila and Lincoln National Forests, White Sands Missile Range, and McGregor Range | potential occurrence |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|-------------------------------|------------------------------------|--------------------|---|---|---|
| White Sands pupfish | Cyprinodon tularosa | SC | - inhabits fine mud silt and sand gravel bottoms of clear, shallow, highly alkaline pools and streams of the Tularosa Valley | present, known to occur on the White Sands Missile Range | unlikely occurrence, known only to occur within the White Sands Missile Range |
| White Sands woodrat | Neotoma micropus leucophaea | SC | - inhabits lowland areas with sandy soils | present, known to occur in the White Sands Missile Range and is likely to occur elsewhere within the Tularosa Basin | likely occurrence |
| Yuma myotis | Myotis yumanensis | SC BLMS | - occurs in piñon-juniper/grass mountain habitat | present, known to occur in Cibola and Gila National Forests, and McGregor Range | present |
| Cornudas Mountains land snail | Ashmunella amblya cornudasensis | LCFOS Sensitive | - occurs in talus slopes in mountain habitats | present, only known to occur in the Cornudas Mountains | present, distribution extends beyond the Cornudas Mountains ACEC boundaries and therefore IS within the Decision Area |

| Common Name | Scientific Name | Status | Habitat Characterization and General Distribution Information | Potential Presence in Planning Area (Sierra and Otero Counties) | Potential Presence in Decision Area |
|----------------------|-------------------------------------|--------------------|---|--|--|
| Yellow-billed cuckoo | Coccyzus americanus occidentalis | LCFOS Sensitive | - breeds in riparian woodlands and similar habitats at lower (2,800 to 5,500 feet) and middle (5,000 to 7,500 feet) elevations | present, known to occur in the Lincoln National Forest, White Sands Missile Range, McGregor Range, and Rio Grande Valley | present |

SOURCES:

M. Howard, personal communication, 1999

New Mexico Department of Game and Fish 1999a

NOTES:

Status=FE-Federally endangered FT=Federally threatened PE=Proposed endangered PT=Proposed threatened C=Candidate SC=Former Candidate Category

2 Species BLMS=BLM sensitive LCFOS=Las Cruces Field Office Sensitive NM End=New Mexico endangered NM Thr=New Mexico threatened CH=Critical habitat designated July 1999 PCH=Proposed critical habitat ACEC = Area of Critical Environmental Concern

APPENDIX D-II SPECIAL STATUS SPECIES ACCOUNTS

FEDERALLY LISTED PLANT SPECIES

<u>Kuenzler Hedgehog Cactus (Echinocereus fendleri var. kuenzleri)</u> - Federally Endangered, New Mexico Endangered

The Kuenzler hedgehog cactus grows between rocks on gently sloping limestone outcrops in piñon-juniper woodlands from 5,800 to 6,600 feet elevation. This cactus is known to occur in northeast Otero and adjacent Chaves and Lincoln Counties. Within Otero County, it is known to occur on the Mescalaro Apache Indian Reservation, in the Elk/Mahill area, and in the areas east of the Guadalupe Mountains. No known populations occur in Sierra County.

<u>Sacramento Prickly Poppy (Argemone pleiacantha ssp. pinnatisecta) - Federally Endangered,</u> <u>New Mexico Endangered</u>

The Sacramento prickly poppy occurs in riparian and arroyo habitats and is endemic to 10 canyons on the Sacramento Escarpment from High Rolls to Escondido Canyon in Otero County. On public land, its habitat extends approximately 1 mile onto the Escarpment pediment from the mouth of Alamo and San Andrea Canyons. The Bureau of Land Management (BLM) population of this species varies from 1 to approximately 20 plants. They are apparently the result of seeds washing down canyon from the population on the Lincoln National Forest at higher elevations. Xeric habitat conditions at the known elevations on BLM land appear to limit the species to arroyos where sufficient moisture is available to support them. Plants appear to persist only as long as environmental conditions remain moist, and plants are not removed by channel scouring. On public land, this plant occurs only within the Sacramento Escarpment Area of Critical Environmental Concern (ACEC). The main populations occur in the higher elevations on the Lincoln National Forest. Some plants also may occur on private land within this area. No populations of this species are known to occur in Sierra County.

Todsen's Pennyroyal (Hedeoma todsenii) - Federally Endangered, New Mexico Endangered

The Todsen's pennyroyal occurs on north and east facing steep slopes (from 6,600 to 7,400 feet elevation) in gravelly gypseous limestone soil in piñon-juniper woodland and sometimes ponderosa pine vegetation. It produces red-orange flowers that appear from July to September. Reproduction is mainly by rhizomatous cloning. This plant is known to occur only in the San Andrea Mountains on the White Sands Missile Range in Sierra County and on the other side of the Tularosa Basin in the

Sacramento Mountains in Otero County. A relatively large population occurs on public land on the western edge of the Sacramento Mountains, and a small population occurs on the adjacent Lincoln National Forest. Critical habitat has been designated on public land in Otero County.

PLANT SPECIES OF CONCERN

<u>Duncan's Cory Cactus (Coryphantha duncanii)</u> - <u>Species of Concern, New Mexico</u> <u>Endangered, BLM Sensitive</u>

This cactus occurs on alternating dolomite and chert of the Aleman formation and limestone outcrops and soils among Chihuahuan Desert shrub vegetation at 3,000 to 5,000 feet elevation. Flower petaloid parts are pink and lance-shaped, and the flowers are red. Flowering occurs from May to July. Within New Mexico, this species is known to occur only in the Mud Mountains northwest of Truth or Consequences in Sierra County.

<u>Glass Mountain Coral-root (Hexalectris nitida)</u> - <u>Species of Concern, New Mexico</u> <u>Endangered, BLM Sensitive</u>

The Glass Mountain coral-root is a saprophytic (i.e., obtains its nutrients from dead organic matter) plant that occurs under oak trees in grassy, mountain habitats. Within the Planning Area, this plant is known only to occur in an area of private land in the Cornudas Mountains in Otero County. It also may occur elsewhere in New Mexico.

Wright's Marsh Thistle (Cirsium wrightii) - Species of Concern

The Wright's marsh thistles occurs in spring and cienega habitats. This thistle may occur in Otero County and its potential distribution includes the base of the Sacramento Escarpment from Three Rivers to Alamogordo (Howard 1999).

<u>Desert Night-blooming Cereus (Cereus greggii var. greggii) - Species of Concern, New</u> Mexico Endangered, BLM Sensitive

The night-blooming cereus grows in washes or flats, often under bushes or shrubs, at approximately 3,000 to 5,000 feet elevation. The flowers are white, opening at nights, about 8 inches long, and appear in June. The plants are popular with cactus collectors and populations have been decimated by collectors. This cactus may occur in Sierra or Otero County, although no populations are known to be present.

<u>Guadalupe Rabbitbrush (Chrysothamnus nauseosus var. texensis) - Species of Concern, BLM</u> Sensitive

The Guadalupe rabbitbrush occurs in limestone cliffs and streambeds at elevations of 4,900 to 7,000 feet. This low, spreading shrub has yellow flowers and is unique in having a long stigma and short pappus. This plant is known to occur in the Brokeoff and Guadalupe Mountains in Otero County. Other populations occur in the Guadalupe Mountains in Eddy County, New Mexico, and Culberson County, Texas.

BLM SENSITIVE SPECIES

Fish Hook Barrel Cactus (Ferocactus hamatacanthus var. hamatacanthus) - BLM Sensitive

The fish hook cactus occurs in mixed shrub hill habitats. This cactus was reported to occur just west of the Cornudas Mountains in Otero County.

Grama Grass Cactus (Toumeya papyracanthus) - BLM Sensitive

The grama grass cactus occurs in open flats in grasslands and piñon-juniper woodlands on sandy-gravelly and occasionally gypseous soils at 5,000 to 7,300 feet elevation. At one time, this species may have had a considerably larger range and may have been more abundant. Increased grazing has decreased the numbers of cactus. This cactus is located primarily in northern, central, and southern New Mexico as well as central Arizona. It is known to occur in Otero County on the Guadalupe Ranch, McGregor Range, and in the Tularosa Basin from Lake Holloman to Tres Hermanas. The range has been discovered to be larger than thought originally; however, population numbers within this range are likely reduced due to various land use practices.

<u>Guadalupe Mountains Mescal Bean (Sophora gypsophila var. guadalupensis) - BLM</u> <u>Sensitive</u>

The Guadalupe Mountains mescal bean occurs in grass mountain and arroyo habitats. This plant is a rare endemic to the Guadalupe-Brokeoff Mountain range and is known to occur in the Brokeoff Mountains in Otero County.

NEW MEXICO ENDANGERED SPECIES

Sheer's Cory Cactus (Coryphantha scheeri var. uncinata) - New Mexico Endangered

The Sheer's cory cactus occurs along the Rio Grande in creosote breaks as far north as the Mud Mountains. Its habitat is disappearing due to urbanization along the Rio Grande. This cactus occurs in Dona Ana and Sierra Counties in New Mexico as well as in Texas and New Mexico (Sivinski and Lightfoot 1995).

BLM LAS CRUCES FIELD OFFICE (LCFO) SENSITIVE SPECIES

Gray Sibara (Sibara grisea) - BLM LCFO Sensitive

The gray sibara occurs in grass mountain habitats, typically in limestone cliffs and crevices. This plant is known to occur in Chaves, Eddy, and Otero Counties in New Mexico and in Texas. In Otero County, it is known to occur in the Sacramento Escarpment and the Brokeoff Mountains (Sivinski and Lightfoot 1995).

Gypsum Blazingstar (Mentzelia humilis var. guadalupensis) - BLM LCFO Sensitive

The gypsum blazingstar occurs on gypsum outcrops on sloping hillsides. This plant is known to occur on the west face of the Guadalupe Mountains near or at the mouth of Pup Canyon in Otero County (Howard 1999).

Gypsum Ringstem (Anulocaulis leisolenus var. howardii) - BLM LCFO Sensitive

The gypsum ringstem occurs on gypsum outcrops in mixed shrub mountain habitats. This plant is known to occur on the west face of the Guadalupe Mountains near or at the mouth of Pup Canyon in Otero County (Howard 1999).

Roetter's Hedgehog Cactus (Echinocereus x Roetteri var. Roetteri) - BLM LCFO Sensitive

The Roetter's hedgehog cactus occurs in Chihuahuan desert scrub and semidesert grassland habitats. Its attractive flowers and uniqueness make it susceptible to plant collectors. This hybrid cactus occurs as a large population in the Jarilla Mountains at Orogrande in Otero County (Howard 1999).

NEW MEXICO RARE SPECIES

Mosquito Plant (Agastache cana) - New Mexico Rare

The mosquito plant occurs in cold adapted evergreen woodland at intermediate elevations. This habitat is widespread throughout New Mexico, and usually occurs at elevations between 5,500 feet to 7,500 feet. It is known to occur in Dona Ana, Grant, Lincoln, Luna, Otero, and Sierra Counties.

FEDERALLY LISTED, PROPOSED, AND CANDIDATE ANIMAL SPECIES

Interior Least Tern (Sterna antillarum) - Federally Endangered

The interior least tern nests in colonies on sandy beaches on shorelines of streams, rivers, and alkaline flats. It is a vagrant along the Rio Grande corridor and known to occur on the Gila National Forest and at Lake Holloman and incidental occurrences have been reported on McGregor Range (New Mexico Department of Game and Fish [NMDGF] 1999a).

Northern Aplomado Falcon (Falco femoralis septentrionalis) - Federally Endangered, New Mexico Endangered

Habitat known to be utilized by aplomado falcons consists of desert grasslands with scattered mesquite and yucca, riparian woodlands in open grasslands, and among yucca-covered sand ridges in coastal prairies. Aplomado falcons are not known to build their own nests, and in the southwestern United States, they use previously constructed nests located in the saddle of branched yuccas, in mesquites, or on the tops of crucifixion bushes (BLM 1996).

Aplomado falcons were believed to have been extirpated in the United States since the late 1950s. Recently, a population of aplomado falcons was confirmed in the extensive grassland communities of northern Mexico. In addition, three reports of aplomado falcons were verified on or adjacent to the White Sands Missile Range during 1991 and 1992. A third observation was made on U.S. Highway 380 between Carrizo and San Antonio, New Mexico in 1992. In 1995, the only known active nest was documented in Cameron County, Texas. This is the first documented nesting in the United States since 1952 (BLM 1996). Seven sightings were made within the Planning Area in 1999 (Howard, personal communication, 1999). No critical habitat has been identified within the United States. Areas of potential aplomado falcon habitat have been identified in Sierra and Otero Counties in grassland areas.

Southwestern Willow Flycatcher (Empidonax traillii extimus) - Federally Endangered

The southwestern willow flycatcher is a species that has specialized in the use of cottonwood/willow riparian habitats for nesting. The species migrates into the southwest United States from Mexico and Central America by mid-May. Breeding, nesting, and rearing are completed by early July. Breeding range, as depicted by Hubbard (1987), follows along the eastern boundary of the Rio Grande Valley from El Paso northward and deviates easternly in Torrance County to the east side of the Sangre de Christo Mountains. However, specimens of *E.t. extimus* have been taken during migration in Roosevelt County in 1975 and 1976. While this leaves breeding occurrence of the species east of the Rio Grande in question, there have been no verified accounts of breeding reported east of Hubbard's 1987 breeding habitat boundary to date. This suggests that the occurrence of *E.t. extimus* in the Planning Area is unlikely (BLM 1997).

The species is threatened by modification and loss of riparian habitats, and by nest parasitism by brown headed cowbirds. There is no critical habitat in Sierra and Otero Counties. Potential habitat, of low quality, occurs in the Planning Area at Three Rivers Petroglyph Site ACEC, Palomas Creek, Percha Creek, Laborcita Canyon, and Tierra Blanca Creek (U.S. Fish and Wildlife Service [USFWS] 1997).

Bald Eagle (Haliaeetus leucocephalus) - Federally Threatened, New Mexico Threatened

The bald eagle occurs in New Mexico mainly as a migrant and a winter resident. It primarily occurs in riparian areas adjacent to rivers, reservoirs, and ponds, and roosts in large trees that may be close to foraging areas. Other foraging habitats include grass flats, rolling uplands, and creosote rolling upland habitats. Rabbits, fish, and waterfowl are the primary prey items. One bald eagle nest is known to occur on private land in Sierra County.

Mexican Spotted Owl (Strix occidentalis lucida) - Federally Threatened

The Mexican spotted owl occurs in varied habitat consisting primarily of mature montane forest. Uneven-aged stands with high canopy closure, high tree density, multilayered canopy, and a terrain with slopes greater than 15 degrees appear to be key habitat characteristics in forested habitats. Nest sites have been identified on the Lincoln National Forest, and individual birds have been observed foraging east of Lincoln National Forest. Primary activity centers (PACs) have been identified on the Lincoln National Forest. Nesting also occurs in the Gila National Forest.

Mountain Plover (Charadrius montanus) - Proposed Threatened

The mountain plover is associated with shortgrass and shrub-steppe landscapes throughout its breeding and wintering range. Breeding occurs in the Rocky Mountain states from Canada to Mexico with most breeding birds occurring in Montana and Colorado. Most wintering birds occur in California and some occur in Arizona, Texas, and Mexico (USFWS 1999). Conversion of grassland habitats, agricultural practices, grazing, and the decline of native herbivores have likely resulted in the decline of this species. Mountain plovers are known to occur in Otero County on McGregor Range and Otero Mesa.

<u>Arizona Black-tailed Prairie Dog (Cynomys ludovicianus arizonensis) - Federal Candidate, BLM Sensitive</u>

The Arizona black-tailed prairie dog occurs on flat, dry, open grasslands of mesa tops or valley bottoms within the broad limits of the Upper Sonoran Zone. It is known to occur in Otero County on McGregor Range and Otero Mesa (NMDGF 1999a). This species historically occurred in Sierra County.

Chiricahua Leopard Frog (Rana chiricahuensis) - Federal Candidate, BLM Sensitive

This frog occurs in a variety of permanent aquatic habitats including thermal springs and seeps, stock tanks, wells, intermittent rocky creeks, and mainstream river reaches. It occurs at elevations from 3,280 to 8,530 feet (NMDGF 1999a). The Chiricahua leopard frog is known to occur in the Gila and San Francisco River drainages, as well as the Cuchillo Negro Creek, Palomas Creek, and the Seco Creek in Sierra County. It has the potential to occur in Percha Creek and Animas Creek (Howard 1999). Population declines may be the result of predation and competition from bullfrogs or predation by introduced fishes (NMDGF 1999a).

ANIMAL SPECIES OF CONCERN

<u>American Peregrine Falcon (Falco peregrinus anatum) - New Mexico Endangered, BLM Sensitive</u>

This species nests on steep rocky cliffs, often near water, and often near piñon-juniper habitats. It often forages near water, but also is documented as foraging in most habitat types throughout the Sierra and Otero Counties. Potential nesting habitat exists within the vicinity of the Sacramento Escarpment due to the presence of numerous large cliff faces. Most of these cliffs occur within the Lincoln National Forest, immediately adjacent to the existing Sacramento ACEC. In addition, a small amount of potential nesting habitat may occur on Wind Mountain, Cornudas Mountain, Alamo Mountain,

Guadalupe Rim, Brokeoff Mountain, San Andrea Mountain, Caballo Mountains, and the Black Range (Howard 1999).

<u>Arizona Southwestern Toad (Bufo microscaphus microscaphus) - Species of Concern, BLM</u> Sensitive

The Arizona southwestern toad occurs in riverine and lacustrine wetland habitats. Its range includes Arizona, New Mexico, Utah, and Mexico. It is known to occur in the Gila and Cibola National Forests in Sierra County (NMDGF 1999a).

<u>Baird's Sparrow (Ammodramus bairdii)</u> - <u>Species of Concern, New Mexico Threatened, BLM</u> Sensitive

The Baird's sparrow occurs in grass and mesquite flats and rolling uplands, salt flats, and arroyo habitats. Its winter range includes New Mexico, Arizona, and Oklahoma, and areas south of the United States. Within Sierra and Otero Counties, it is generally considered to be a migratory species. It is known to occur in the Gila and Lincoln National Forests, White Sands Missile Range, and McGregor Range (NMDGF 1999a).

Big Free-tailed Bat (Nyctinomops macrotis) - Species of Concern, BLM Sensitive

This bat appears to prefer coniferous and mixed woodland habitats, but have been taken in a variety of habitats. It is dependent on rocky cliffs with cracks and fissures for roosting. It is known to occur in the Gila and Lincoln National Forests, White Sands Missile Range, and McGregor Range (NMDGF 1999a).

Black Tern (Chlidonias niger) - Species of Concern, BLM Sensitive

The black tern forages and breeds in vegetated marshes with areas of open water. It is considered to be an uncommon summer migrant species in Sierra and Otero Counties and has been observed in the White Sands Missile Range and McGregor Range (NMDGF 1999a).

Cave Myotis (Myotis velifer) - Species of Concern, BLM Sensitive

The cave myotis primarily occurs in desert and lower grasslands, but also in piñon-juniper woodlands. It inhabits mine shafts, tunnels, caves, and bridges (NMDGF 1999a). Its range includes New Mexico,

Arizona, Texas, Oklahoma, and Utah. Within Sierra and Otero Counties, it is known to occur in the Gila and Lincoln National Forests, White Sands Missile Range, and McGregor Range (NMDGF 1999a).

Desert Pocket Gopher (Geomys bursarius arenarius) - Species of Concern, BLM Sensitive

The desert pocket gopher inhabits lowland areas with loamy, sandy soils. It tends to avoid areas with sandy or rocky soils (Bogan 1999). It is known to occur in Otero County in the vicinity of Alamogordo and Tularosa, but is not known to occur in Sierra County (Bogan 1999).

Ferruginous Hawk (Buteo regalis) - Species of Concern, BLM Sensitive

The ferruginous hawk utilizes open grasslands and prairies, especially for nesting. It occurs in New Mexico both as a winter migrant and a nesting resident. It is present in Sierra and Otero Counties as a migrant (BLM 1997).

Fringed Myotis (Myotis thysanodes) - Species of Concern, BLM Sensitive

This bat primarily occurs in mid-elevation grasslands, desert, oak and piñon woodlands, but also in high-elevation spruce-fir forests. The range of this species includes New Mexico, Arizona, Colorado, and Texas. It occurs in both Sierra and Otero Counties and specifically is known to occur in Cibola, Gila, and Lincoln National Forests, White Sands Missile Range, and McGregor Range (NMDGF 1999a).

Gray-footed Chipmunk (Tamias canipes) - Species of Concern, BLM Sensitive

The gray-footed chipmunk primarily inhabits forest habitats, but also utilizes piñon-juniper and arroyo habitats. The range of this species includes New Mexico and Texas. Within Otero County, this species is known to occur in the Lincoln National Forest and the Guadalupe Mountains, as well as in piñon-juniper habitats adjacent to McGregor Range (NMDGF 1999a).

<u>Guadalupe Southern Pocket Gopher (Thomomys bottae guadalupensis) - Species of Concern,</u> BLM Sensitive

The Guadalupe southern pocket gopher occurs in areas with loamy soil in a variety of habitats ranging from arid lowland to mountains. It tends to avoid areas with rocky soils (Bogan 1999). It is known to

occur in the Guadalupe Mountains in Eddy County, New Mexico, and also may occur in the Guadalupe Mountains in Otero County (Bogan 1999).

Loggerhead Shrike (Lanius ludovicianus) - Species of Concern, BLM Sensitive

The loggerhead shrike occurs in a variety of shrub/grassland, open woodland, and chaparral habitats. It is a resident species throughout New Mexico and is rare to fairly common at lower and elevations and locally common at middle elevations. This species is known to be present in both Sierra and Otero Counties.

Long-legged Myotis (Myotis volans) - Species of Concern, BLM Sensitive

This bat primarily occurs in ponderosa pine and piñon-juniper habitats, and also occurs in grassland habitats. It uses large ponderosa pine snags, deciduous tree snags, rock crevices, mine shafts, and abandoned buildings for roosting. This migrant species is present in New Mexico from May through September. It is known to occur in Cibola, Gila, and Lincoln National Forests, White Sands Missile Range, and McGregor Range (NMDGF 1999a).

<u>Long-eared Myotis (Myotis evotis) - Species of Concern, BLM Sensitive</u>

This bat occurs in piñon-juniper and ponderosa pine habitats. The range of this species includes New Mexico, Arizona, and Utah. Within Sierra County, it is known to occur in the Cibola and Gila National Forests, but has not been identified in Otero County (NMDGF 1999a).

Longfin Dace (Agosia chrysogaster) - Species of Concern, BLM Sensitive

The longfin dace occurs in a variety of aquatic habitats ranging from clear, cool mountain brooks to small intermittent desert streams with a sand or gravel substrate (NMDGF 1999a). The range of this species includes New Mexico, Arizona, and Mexico. Within New Mexico, it is present in Sierra County in the Gila River drainages, and San Francisco River. It was introduced into the Rio Grande Basin downstream of the Elephant Butte Reservoir in the 1950s and is present in Percha Creek (NMDGF 1999a).

Mineral Creek Mountain Snail (Oreohelix pilsbryi) - Species of Concern

The Mineral Creek mountain snail inhabits an extremely small area 327 by 327 feet (100 by 100 meters) along Mineral Creek in the vicinity of the Oliver's Mine, which is approximately 5 miles north of Chloride, Sierra County (Metcalf and Smartt 1988).

Neotropic Cormorant (Phalacrocorax brasilianus) - New Mexico Threatened

The neotropic cormorant generally occurs in larger bodies of water, such as reservoirs. For nesting, they require stands of trees or shrubs near or in water and free from human disturbance. This bird breeds and is variable a resident in the Rio Grande Valley at the Elephant Butte and Caballo Reservoirs, and it is considered to be a vagrant in the Alamogordo area (NMDGF 1999a).

<u>New Mexican Jumping Mouse (Zapus hudsonius luteus) - Species of Concern, New Mexico</u> Threatened, BLM Sensitive

The New Mexican jumping mouse inhabits riparian areas bordering permanent streams, ditches, and wet meadows, with dry higher ground near waterways to provide for nesting and hibernation (NMDGF 1999a). The vegetation is tall, dense, and dominated by grasses and forbs. These nocturnal mammals hibernate for much of the year and are active primarily from May through September. Jumping mouse populations have declined because of wetland destruction, overgrazing, urban encroachment, and periodic severe flooding (NMDGF 1999a). This species is known to occur in the Cloudcroft area of the Sacramento Mountains in Otero County. Also it is known to occur in the Pedro Armendaris Land Grant north of Sierra County, although it has not been identified in Sierra County.

Northern Goshawk (Accipiter gentilis) - Species of Concern, BLM Sensitive

The northern goshawk utilizes primarily moderate to high canopied mature coniferous forests with sparse underbrush. Nest sites are selected in forest stands with a high density of large trees and canopy closure. The northern goshawk is a resident species throughout the Rocky Mountain states. It is known to occur within and adjacent to the Lincoln and Gila National Forests.

Occult Little Brown Bat (Myotis lucifugus occultus) - Species of Concern, BLM Sensitive

This bat occurs in ponderosa pine and mixed conifer forest habitats, as well as piñon-juniper habitats, with permanent water sources, such as streams, rivers, and lakes, where it feeds on flying insects. It is known to occur in the Cibola, Gila, and Lincoln National Forests.

<u>Pale Townsend's Big-eared Bat (Plecotus townsendii pallescens) - Species of Concern, BLM Sensitive</u>

This bat occurs in grass mountain, piñon-juniper, and arroyo habitats. It is strongly associated with caves and abandoned mine tunnels that are used by large congregations of bats as day and winter hibernation roosts, as well as for maternity colonies.

Small-footed Myotis (Myotis ciliolabrum) - Species of Concern, BLM Sensitive

This bat occurs in creosote rolling upland habitats. It is known to occur in Sierra and Otero Counties.

Spotted Bat (Euderma maculatum) - Species of Concern, BLM Sensitive

The spotted bat occurs in a variety of habitats, including grass flats, desert shrub, grass mountain, piñon-juniper, and riparian habitats. It is known to occur in Sierra County.

Texas Horned Lizard (Phrynosoma cornutum) - Species of Concern, BLM Sensitive

The Texas horned lizard inhabits arid and semiarid open habitats with sparse plant growth. The substrate may consist of sand, loam, hardpan, or rock, but usually with some loose soil for burying. This species occurs in Sierra and Otero Counties.

<u>Western Burrowing Owl (Speotyto cunicularia hypugea)</u> - Species of Concern, BLM Sensitive

The western burrowing owl inhabits level, open, and dry areas that are typical of low-statute grassland or desert, and that contain available burrows. They typically nest in abandoned burrows of prairie dogs, as well as ground squirrels, woodchucks, foxes, and badgers. This species is present in Sierra and Otero Counties.

White-faced Ibis (Plegadis chihi) - Species of Concern, BLM Sensitive

The white-faced ibis inhabits grass flats, salt flats, and riparian habitats. It nests in shoreline and marsh habitats bordered by open water. The summer breeding range of the white-faced ibis includes New Mexico, Arizona, Colorado, Oklahoma, and Utah. Within Sierra and Otero Counties, it is known to

occur in the Gila and Lincoln National Forests, White Sands National Monument, and McGregor Range (NMDGF 1999a).

White Sands Woodrat (Neotoma micropus leucophaea) - Species of Concern, BLM Sensitive

The White Sands woodrat inhabits lowland areas with sandy soils and burrows under large thorny shrubs (Bogan 1999). It is known to occur in the Tularosa Basin within the White Sands National Monument and the Holloman Air Force Base and is likely to occur elsewhere within the Tularosa Basin. The White Sands woodrat is potentially the same species as the southern plains woodrat (*Neotoma micropus canescens*), which occurs more commonly in eastern New Mexico, although this has not been documented (Bogan 1999).

Yuma Myotis (Myotis yumanensis) - Species of Concern, BLM Sensitive

This bat occurs in piñon-juniper habitats. It is known to occur in Cibola and Gila National Forests and McGregor Range.

BLM LCFO SENSITIVE SPECIES

Cornudas Mountains Land Snail (Ashmunella amblya cornudasensis) - BLM LCFO Sensitive

The Cornudas Mountains land snail occurs in mixed shrub mountain habitats on the Cornudas Mountains, to which it is endemic. Its distribution range extends outside the Cornudas Mountains ACEC boundaries.

Yellow-billed Cuckoo (Coccyzus americanus occidentalis) - BLM LCFO Sensitive

The yellow-billed cuckoo breeds in riparian woodlands and similar habitats at lower (2,800 to 5,500 feet) to middle (5,000 to 7,500 feet) elevations. The summer breeding range includes New Mexico, Arizona, Colorado, and Utah. Within Sierra and Otero Counties, it is known to occur in the Lincoln National Forest, White Sands Missile Range, McGregor Range, and Rio Grande Valley (NMDGF 1999a).

| Gener | ral Information | | Habitat Type | | | | | | | | |
|---|--|-------------------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|---------------------|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | |
| | | | | | Plant Specie | es | | | | | |
| Kuenzler hedgehog cactus | Echinocereus fendleri var. Kuenzleri | FE NM Thr | | | | X | | | | | |
| Sacramento prickly poppy | Argemone pleiacantha ssp. pinnatisecta | FE, NM Thr | | | | | X | | X | | |
| Todsen's pennyroyal | Hedeoma todsenii | FE w/CH NM Thr | | | | X | | | | | |
| Duncan's cory cactus (Duncan's pincushion cactus) | Coryphantha duncanii | SC NM End | | X | X | | | | X | | |
| Glass Mountain coral-root | Hexalectris nitida | SC NM End BLMS | | | | X | | | | | |

| Gener | ral Information | | Habitat Type | | | | | | | | | |
|---------------------------------------|--|-------------------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|---------------------|--|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | | |
| Wright's marsh thistle | Cirsium wrightii | SC | | | | | | | X | | | |
| Desert night-blooming cereus | Cereus greggii var. greggii | SC NM End BLMS | | X | | | X | | | | | |
| Guadalupe rabbitbrush | Chrysothamnus nauseosus var. texensis | SC BLMS | X | | | | X | | | | | |
| Fish hook barrel cactus | Ferocactus hamatacanthus var. hamatacanthus | BLMS | X | X | X | | | | | | | |
| Grama grass cactus | Toumeya papyracanthus | BLMS | X | | | | | | | | | |
| Guadalupe Mountains mescal bean | Sophora gypsophila var. guadalupensis | BLMS | X | | | X | X | | | | | |

| Gener | ral Information | | | | | Habit | tat Type | | | |
|---------------------------------|---|--------------|------------|-----------------|------------------|---------------------|----------|---------|--------------------------------|---------------------|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) |
| Sheer's cory cactus | Coryphantha scheeri var. uncinata | NM End | | X | | | | | | |
| Gray sibara | Sibara grisea | LCFOS | X | | | | | | | |
| Gypsum blazingstar | Mentzelia humilis var. guadalupensis | LCFOS | | | X | | | | | |
| Gypsum ringstem | Anulocaulis gypsogenus var. howardii | LCFOS | | | X | | | | | |
| Roetter's hedgehog cactus | Echinocereus X Roetteri var. Roetteri | LCFOS | X | X | | | | | | |
| Mosquito plant | Agastache cana | NM Rare | | | | X | | | | |
| | | | | | Animal Speci | les | | | | |
| American peregrine falcon | Falco peregrinus anatum | FE NM Thr | X | X | X | X | X | | X | |

| Gener | al Information | | Habitat Type | | | | | | | | | |
|--------------------------------|---------------------------------|--------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|---------------------|--|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | | |
| Interior least tern | Sterna antillarum | FE | | | | | | | X | | | |
| Northern aplomado falcon | Falco femoralis septentrionalis | FE Nm End | X | X | | | | | | | | |
| Southwestern willow flycatcher | Empidonax traillii extimus | FE w/PCH | | | | | | | X | | | |
| Bald eagle | Haliaeetus leucocephalus | FT NM Thr | X | X | | | X | | X | | | |
| Arctic peregrine falcon | Falco peregrinus tundrius | FT (S/A) | X | X | X | X | X | | X | | | |
| Mexican spotted owl | Strix occidentalis lucida | FT | X | | | X | X | | X | | | |
| Mountain plover | Charadrius montanus | PT | X | | | | | | | | | |

| Gene | ral Information | l | Habitat Type | | | | | | | | | |
|--|--|----------------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|---------------------|--|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | | |
| Arizona black-tailed prairie dog | Cynomys ludovicianus arizonensis | C BLMS | X | | | | | | | | | |
| Chiricahua leopard frog | Rana chiricahuensis | C BLMS | | | | | | | X | | | |
| Arizona southwestern toad | Bufo microscaphus microscpahus | SC BLMS | | | | | | | X | | | |
| Baird's sparrow | Ammodramus bairdii | SC NM Thr BLMS | X | X | | | X | | X | | | |
| Big free-tailed Bat | Nyctinomops macrotis | SC BLMS | | X | | X | | | X | | | |
| Black tern | Chlidonias niger | SC BLMS | | X | | | | | | | | |
| Cave myotis | Myotis velifer | SC BLMS | X | X | | X | | | X | | | |

| Gener | ral Information | | Habitat Type | | | | | | | | | |
|--|---------------------------------------|------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|--|--|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | | |
| Desert pocket gopher | Geomys bursarius arenarius | SC BLMS | X | X | | | | | | | | |
| Ferruginous hawk | Buteo regalis | SC BLMS | X | X | X | X | X | | X | | | |
| Fringed myotis | Myotis thysanodes | SC BLMS | X | X | | X | | | X | | | |
| Gray-banded kingsnake | Lampropeltis alterna | NM End | | X | X | X | X | | | Rocky habitats east of Tularosa Basin | | |
| Gray-footed chipmunk | Tamias canipes | SC BLMS | | | | X | X | | | | | |
| Guadalupe southern pocket gopher | Thomomys umbrinus guadalupensis | SC BLMS | X | X | | Х | | | | | | |
| Loggerhead shrike | Lanius ludovicianus | SC BLMS | X | X | X | Х | X | X | X | | | |
| Long-legged myotis | Myotis volans | SC BLMS | X | | | X | | | X | | | |

| Gener | ral Information | | Habitat Type | | | | | | | | | |
|--------------------------------|---------------------------------|----------------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|--|--|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | | |
| Long-eared myotis | Myotis evotis | SC BLMS | | | | X | | | X | | | |
| Longfin dace | Agosia chrysogaster | SC BLMS | | | | | | | X | | | |
| Mineral Creek mountainsnail | Oreohelix pilsbryi | SC | | | | | | | X | | | |
| Mottled rock rattlesnake | Crotalus lepidus lepidus | NM Thr | | X | X | X | X | | | Rocky habitats east of Tularosa Basin | | |
| Neotropic cormorant | Phalacrocorax brasilianus | NM Thr | | | | X | | | | | | |
| New Mexican jumping mouse | Zapus hudsonius luteus | SC NM Thr BLMS | | | | | | | X | | | |
| Northern goshawk | Accipiter gentilis | SC BLMS | | | | X | | | X | | | |
| Occult little brown bat | Myotis lucifugus occultus | SC BLMS | | | | Х | | | X | | | |

| Gener | al Information | | Habitat Type | | | | | | | | | |
|-------------------------------|--------------------------------------|------------|--------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|---------------------|--|--|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) | | |
| Pale Townsend's big-eared bat | Plecotus townsendii pallescens | SC BLMS | X | | | X | X | | X | | | |
| Small-footed myotis | Myotis ciliolabrum | SC BLMS | X | X | X | X | X | | X | | | |
| Spotted bat | Euderma maculatum | SC BLMS | X | X | | X | | | X | | | |
| Texas horned lizard | Phrynoso macornutum | SC BLMS | X | X | | | X | | X | | | |
| Western burrowing owl | Speotyto cunicularia hypugea | SC BLMS | X | | | | | | | | | |
| White-faced ibis | Plegadis chihi | SC BLMS | X | | | | | | X | | | |
| White Sands woodrat | Neotoma micropus leucophaea | SC BLMS | X | X | | | | | | | | |
| Yuma myotis | Myotis yumanensis | SC BLMS | | | | X | | | X | | | |

| Gener | al Information | Habitat Type | | | | | | | | |
|-------------------------------------|--|--------------|------------|-----------------|------------------|---------------------|--------|---------|--------------------------------|---------------------|
| Common Name | Scientific Name | Status | Grasslands | Desert Scrub | Montane Scrub | Woodland/ Forest | Arroyo | Malpais | Riparian/ Other Wetlands | Other (Cropland) |
| Cornudas Mountains Land snail | Ashmunella amblya cornudasensis | LCFOS | | | X | | | | | |
| Yellow-billed cuckoo | Coccyzua americanus occidentalis | LCFOS | | | | | | | X | |

SOURCES:

M. Howard, Las Cruces BLM Field Office, 1999

New Mexico Department of Game and Fish, BISON-M Database

NOTES:

Status: FE = Federally Endangered, FT = Federally Threatened, C = Federal Candidate, PE = Proposed Endangered, PT = Federally Proposed Threatened, CH = Critical Habitat designated, SC = Federal Species of Concern, NM End = New Mexico Endangered, NM Thr = New Mexico Threatened, BLMS = BLM Sensitive, LCFOS = Las Cruces Field Office Sensitive

GOVERNOR Garv E. Johnson



DIRECTOR AND SECRETARY TO THE COMMISSION Gerald A. Maracchini

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Gail J. Cramer

George A. Ortega Santa Fe. NM

December 2, 1998

Attn. Theresa Hanley Bureau of Land Management Las Cruces Field Office 1800 Marquess Las Cruces, NM 88005

RE:

Developing a RMPA to the White Sands Resource Management Plan to address fluid minerals

leasing in Sierra and Otero Counties. 1610 (03000).

NMGF No. 6534

Dear Ms. Hanley:

The Department of Game and Fish (Department) has reviewed the Bureau of Land Management's (BLM) scoping notice for fluid mineral leasing and development on public land in Sierra and Otero counties. The Department's concerns regard impacts on big game, small game, threatened, endangered, and sensitive, species habitats. One of our primary concerns is the potential impact of oil and gas mining activities on potential bighorn sheep transplant sites.

Free-ranging populations of desert bighorn sheep number 200 statewide and are distributed among six populations. No population currently exceeds 100 individuals. The Caballo, Sacramento, and Guadalupe mountains are considered potential release sites. Desert bighorn populations are not secure and remain vulnerable to innumerable impacts. The Department is still far from reaching our de-listing goal of 500 desert bighorn sheep distributed among three geographically separate populations or metapopulations, each of which numbers at least 100 sheep. Our goals are further described in New Mexico's Long Range Plan for Desert Bighorn Sheep Management 1995-2002 (NMGF 1995).

The available literature indicates that bighorn may temporarily abandon habitat due to increased human activity resulting from mining operations, which could be critical if mining occurs on lambing grounds or water sources (Leslie and Douglas 1980; Campbell and Remington 1981). Roads built or improved for mining or other activities may provide access to previously undisturbed areas and increase potential negative impacts of people in bighorn habitat (McQuivey 1978). In the Grand Resource Area in Utah, improvement of county roads in remote, critical bighorn ranges led to increased use by hikers, mountain bikers, commercial tours, and rock climbers in bighorn habitat (BLM 1993). Lastly, roads fragment habitat that may be important for inter-mountain movements. We have similar concerns about the potential impacts of increasing human disturbance on other wildlife species, especially mule deer, antelope and small game

species, as these areas have good populations that produce a huntable surplus.

Included for your use is a list of threatened, endangered, and sensitive species existing in Sierra and Otero Counties. Thank you for the opportunity to comment on this scoping packet. Please contact Patrick Snyder, Southwest Area Wildlife/Habitat Specialist, at (505) 522-9796 if you have any questions for Sierra County or Michael Massy, Southeast Area Habitat Specialist, at (505) 624-6135 if you have any questions for Otero County.

Sincerely,

Andrew V. Sandoval, Chief Conservation Services Division

- Bureau of Land Management (BLM). 1993. City Slickers II Environmental Assessment. Ut-068-93-108. Grand Resource Area, Moab District Office. Moab, Utah. July 1993
- Campbell, B. H. and R. Remington. 1981. Influence of construction activities on water use patterns of desert bighorn sheep. Wildl. Soc. Bull. 9:63-65.
- Leslie, D. M., Jr. and C. L. Douglas. 1980. Human disturbance at water sources of desert bighorn sheep. Wildl. Soc. Bull. 8:284-290.
- McQuivey, R. P. 1978. The desert bighorn sheep of Nevada. Nevada Dep. of Fish and Game Biol. Bull. 6, Reno. 81pp.
- New Mexico Department of Game and Fish. 1995. New Mexico's long range plan for desert bighorn sheep management 1995-2002. Final Report. Fed. Aid in Wildl. Restor. Proj. W-127-R10. New Mexico Department of Game and Fish, Santa Fe. 40pp.

AVS/PS/af

cc: Lieutenant Governor Walter Bradley
Field Supervisor Ecological Services, USFS
Jerry A. Maracchini (Director, NMGF)
Scott Brown (Assistant Director, NMGF)
Steve Henry (Chief SW Area Operations, NMGF)
Mike Bell (Chief SE Area Operations, NMGF)
Jim Bailey (Assistant Chief, CSD, NMGF)
Amy Fisher (Assistant Chief, CSD, NMGF)
Patrick Snyder (SW Area Wildlife/Habitat Specialist, NMGF)
Michael Massey (SE Habitat Specialist, NMGF)
Eric Rominger (Bighorn Sheep Contractor, NMGF)

NEW MEXICAN WILDLIFE of CONCERN



STATUS & DISTRIBUTION

STATE OF NEW MEXICO: THREATENED, ENDANGERED, SENSITIVE USFWS: THREATENED, ENDANGERED, CANDIDATE, PROPOSED, SPECIES OF CONCERN

US BUREAU OF LAND MANAGEMENT: SENSITIVE

US FOREST SERVICE: SENSITIVE EXTIRPATED FROM NEW MEXICO

> US CITES LISTED HARVESTABLE **EXTINCT**

State-wide lists: pages 3-13 County lists: pages 14-66

TABLE KEY

| FWS ESA NM WCA FS R3 BLM NM NM Sen FWS SOC | US FISH & WILDLIFE SERVICE; ENDANGERED SPECIES ACT NEW MEXICO; WILDLIFE CONSERVATION ACT US FOREST SERVICE; REGION 3, NEW MEXICO & ARIZONA US BUREAU OF LAND MANAGEMENT, NEW MEXICO NEW MEXICO; SENSITIVE (INFORMAL) US FISH & WILDLIFE SERVICE; SPECIES OF CONCERN (INFORMAL) |
|---|--|
| - | FUDANICEDED |
| Ł | ENDANGERED |
| T | THREATENED |
| P | PROPOSED |
| C | CANDIDATE |
| R | RESTRICTED |
| Α | THREATENED or ENDANGERED based on SIMILARITY OF APPEARANCE |
| S | SENSITIVE and SPECIES OF CONCERN (SOC) |

ADDITIONAL INFORMATION

COMPLETE SPECIES ACCOUNTS: Information pertaining to taxonomy, status, distribution, habitat, environmental association, food habits, management practices and references for all vertebrates and selected invertebrates in New Mexico is in a database, the Biota Information System Of New Mexico (BISON-M) and maintained by the New Mexico Department of Game and Fish, Conservation Services Division. All accounts are available on the Internet World Wide Web at:

http://www.fw.vt.edu/fishex/states/nm.htm

or contact Jon Klingel
Conservation Services Division
New Mexico Department of Game & Fish
P.O. Box 25112
Santa Fe, New Mexico 87504

voice:505-827-9912 fax:505-827-9956
e-mail: j klingel@gmfsh.state.nm.us

Or contact the New Mexico Department of Game and Fish, Endangered Species Program in Santa Fe at (505) 827-9904.

Information on federal status species is provided as a courtesy only. We suggest you contact the indicated federal agency for specifics regarding the status of these species. Offices: USFWS, Ecological Services Office, Albuquerque; US Forest Service Region 3 Office, Albuquerque; and US Bureau of Land Management State Office, Santa Fe.

New Mexican Wildlife of Concern - Otero County Page 1 of 2

| new nextedit ii | | | | | ., | • | |
|--------------------------------|-------------------------------------|--------------|-----------|-----------|-------------|-----------|-------------|
| Common Name | SCIENTIFIC NAME | . FWS ESA | NM WCA | FS. R3 | BLM NM | NH Sen | FWS. SOC |
| Rio Grande Cutthroat Trout | Oncorhynchus clarki virginalis | | • | s | • | s | • |
| Rio Grande Chub | Gila pandora | • | - | - | - | \$ | - |
| White Sands Pupfish | Cyprinodon tularosa | • | T | • | - | - | S |
| Sacramento Mountain Salamander | Aneides hardii | • | τ | s | - | | s |
| Northern Leopard Frog | Rana pipiens | • | • | S | • | • | - |
| Bleached Earless Lizard | Holbrookia maculata ruthveni | • | - | - | - | s | - |
| Texas Horned Lizard | Phrynosoma cornutum | • | • | \$ | S | • | S |
| White Sands Prairie Lizard | Sceloporus undulatus cowlesi | - | - | • | - | S | - |
| Little White Whiptail | Cnemidophorus inornatus gypsi | • | • | • | • | S | - |
| Desert Kingsnake | Lampropeltis getula splendida | • | • | S | • | • | • |
| Texas Longnose Snake | Rhinocheilus lecontei | | • | s | - | - | • |
| Mottled Rock Rattlesnake | Crotalus lepidus | | T | S | - | - | • |
| Desert Massasauga | Sistrurus catenatus edwardsii | • | - | S | - | • | . • |
| Brown Pelican | Pelecanus occidentalis carolinensis | E | Ε | s | • | - | - |
| Neotropic Cormorant | Phalacrocorax brasilianus | • | Т | S | - | - | • |
| American Bittern | Botaurus lentiginosus | • | - | S | - | - | - |
| Snowy Egret | Egretta thula brewsteri | . • | • | S | \$ - | - | • |
| Black-crowned Night Heron | Nycticorax nycticorax hoactli | | | | · | • | - |
| White-faced Ibis | Plegadis chihi | 4.5 | - | S | · · · · s | - | s |
| Osprey | Pandion haliaetus carolinensis | 1 1s *** | | s | | | |
| Mississippi Kite | Ictinia mississippiensis | • | | S | | | |
| | Haliaeetus leucocephalus | Т | - T | S * | | | |
| Bald Eagle Northern Goshawk | Accipiter gentilis | | • | S | S | s | s |
| Common Black-hawk | Buteogallus anthracinus anthracinus | | т | S | | - | |
| | Buteo swainsoni | _ | | S | _ | - | _ |
| Swainson's Hawk | Buteo regalis | - | _ | S | s | _ | s |
| Ferruginous Hawk | Falco femoralis septentrionalis | E | E | S | | | 3 |
| Aplomado Falcon | · | E | T | S | - | _ | |
| American Peregrine Falcon | Falco peregrinus anatum | L | ı | S | - | - | - |
| Sora | Porzana carolina | • | • | _ | • | • | - |
| Western Snowy Plover | Charadrius alexandrinus nivosus | | • | S | - | - | • |
| Mountain Plover | Charadrius montanus | С | • | S | - | \$ | • |
| Black-necked Stilt | Himantopus mexicanus | • | • | S | • | • | • |
| Long-billed Curlew | Numerius americanus americanus | - | • | S | ٠. | - | • |
| Interior Least Tern | Sterna antillarum athalassos | Ε | £ | S | _ | • | • |
| Black Tern | Chlidonias niger surinamensis | • | - | • | S | • | S |
| Common Ground-dove | Columbina passerina pallescens | g. 1. • | . € | S | • | • | • |
| Flammulated Owl | Otus flammeolus | - | • | S | • | • | • |
| Burrowing Owl | Athene cunicularia hypugaea | • | • | • | s | • | S |
| Mexican Spotted Owl | Strix occidentalis lucida | T | • | S | - | S | - |
| Elegant Trogon | Trogon elegans canescens | • | Ε | S | - | - | - |
| Belted Kingfisher | Ceryle alcyon | • | • | S | - | - | - |
| Southwestern Willow Flycatcher | Empidonax traillii extimus | Ε | Ε | s | - | - | • |
| Loggerhead Shrike | Lanius ludovicianus | - | - | - | S | - | s |
| Bell's Vireo | Vireo bellii | • | Т | s | | - | - |
| Gray Vireo | Vireo vicinior | - | T | s | - | - | • |
| Gray Catbird | Dumetella carolinensis ruficrissa | - | - | s | | - | - |
| American Redstart | Setophaga ruticilla tricolora | • | • | s | - | | - |
| Baird's Sparrow | Ammodramus bairdii | - | Т | 5 | s | • | s |
| Sprague's Pipit (no data) | Anthus spragueii | | • | s | | - | • |
| Varied Bunting | Passerina versicolor | | Т | s | - | _ | |
| rai rea builting | 1 45561 THE TOTAL OF | - | , | , | | | |

New Mexican Wildlife of Concern - Otero County Page 2 of 2

| Common Name | . SCIENTIFIC NAME | | NM | | BLM NM | NM Sen | FWS. SOC |
|------------------------------------|----------------------------------|---|-----|----------|-----------|-----------|-------------|
| Western Small-footed Myotis Bat | Myotis ciliolabrum melanorhinus | | | - | s | s | s |
| Occult Little Brown Myotis Bat | Myotis lucifugus occultus | - | • | s | s | s | s |
| Cave Myotis Bat | Myotis velifer | - | • | s | S | s | S |
| Long-legged Myotis Bat | Myotis volans interior | • | - | - | s | s | s |
| Fringed Myotis Bat | Myotis thysanodes thysanodes | - | - | - | s | s | s |
| Spotted Bat | Euderma maculatum | - | T | s | s | • | s |
| Pale Townsend's Big-eared Bat | Plecotus townsendii pallescens | - | - | s | S | s | s |
| Big Free-tailed Bat | Nyctinomops macrotis | - | - | • | S | s | s |
| Penasco Least Chipmunk | Tamias minimus atristriatus | - | Ε | s | • | • | - |
| Gray-footed Chipmunk | Tamias canipes canipes | - | - | - | s | • | s |
| Gray-footed Chipmunk | Tamias canipes sacramentoensis | - | • | | s | s | s |
| Arizona Black-tailed Prairie Dog | Cynomys ludovicianus arizonensis | - | - | s | s | s | s |
| Guadalupe Pocket Gopher | Thomomys bottae guadalupensis | • | - | s | s | s | s |
| Botta's Pocket Gopher (subspecies) | Thomomys bottae tularosae | - | - | | | s | - |
| Desert Pocket Gopher | Geomys arenarius brevirostris | - | - | | | | s |
| Plains Pocket Mouse | Perognathus flavescens gypsi | - | - | | | s | - |
| Rock Pocket Mouse | Chaetodipus intermedius ater | | • | - 4 | | s | - |
| New Mexican Jumping Mouse | Zapus hudsonius luteus | • | T. | S | S | - | s |
| Ringtail | Bassariscus astutus | | - | s | 11. | s | • |
| Western Spotted Skunk | Spilogale gracilis | • | • | • | | s | |
| Common Hog-nosed Skunk | Conepatus mesoleucus | • | • ? | • | | s | • |
| Cloudcroft Checkerspot Butterfly | Occidryas anicia cloudcrofti | - | • | . * | • | s | - |

NATIVE WILDLIFE APPARENTLY NO LONGER OCCURRING IN OTERO COUNTY

Rock Squirrel Mexican Gray Wolf Grizzly Bear Jaguar Merriam's Elk Desert Bighorn Sheep Spermophilus variegatus tularosae
Canis lupus baileyi (extirpated from NM)
Ursus arctos (extirpated from NM)
Panthera onca arizonensis
Cervus elaphus merriami (extinct)
Ovis canadensis mexicana

New Mexican Wildlife of Concern - Sierra County Page 1 of 2

| Common Name | . SCIENTIFIC NAME | FWS ESA | NM WCA | FS. R3 | BLM | NM Sen | FWS. SOC |
|---------------------------------|---|------------|-----------|-----------|-----|-----------|-------------|
| Rio Grande Cutthroat Trout | Oncorhynchus clarki virginalis | • | • | s | - | s | - |
| Gila Trout | Oncorhynchus gilae | Ε | T | s | • | - | - |
| Longfin Dace | Agosia chrysogaster (native to Gila basin only in NM) |) - | • | - | s | | s |
| Rio Grande Chub | Gila pandora | • | - | - | - | s | - |
| Rio Grande Sucker | Catostomus plebeius | • | • | s | • | • | • |
| White Sands Pupfish | Cyprinodon tularosa | • | T | • | • | • | S |
| Arizona Toad | Bufo microscaphus microscaphus | | • | s | s | s | s |
| Chiricahua Leopard Frog | Rana chiricahuensis | С | • | s | • | s | • |
| Northern Leopard Frog | Rana pipiens | • | • | S | • | • . | • |
| Big Bend Slider | Trachemys gaigeae | | | | | s | |
| Texas Horned Lizard | Phrynosoma cornutum | | • | s | s | | s |
| Desert Kingsnake | Lampropeltis getula splendida | | - | s | | • | |
| Texas Longnose Snake | Rhinocheilus lecontei | | • | s | | - | _ |
| Desert Massasauga | Sistrurus catenatus edwardsii | • | - | s | - | • | - |
| Brown Pelican | Pelecanus occidentalis carolinensis | E | E | s · | ŧ. | | |
| Neotropic Cormorant | Phalacrocorax brasilianus | - | T | S | | • | _ |
| Great Egret | Ardea alba egretta | | · | s | | | |
| | Egretta thula brewsteri | | | s | | - | _ |
| Snowy Egret White-faced Ibis | Plegadis chihi | | | S | S | | s |
| | Ictinia mississippiensis | | 3 | S | | | |
| Mississippi Kite Bald Eagle | Haliaeetus leucocephalus | Т | Т | s | | _ | _ |
| Northern Goshawk | Accipiter gentilis | · | · | S | s | s | s |
| Northern Gray Hawk | Asturina nitida maximus | | | s | s | | s |
| Common Black-hawk | Buteogallus anthracinus anthracinus | | т | s | | | |
| Swainson's Hawk | Buteo swainsoni | _ | • | s | _ | | |
| Ferruginous Hawk | Buteo regalis | | | S | s | - | s |
| Aplomado Falcon | Falco femoralis septentrionalis | Ε | Ε | s | | | , |
| American Peregrine Falcon | Falco peregrinus anatum | E | T | s | | | |
| Western Snowy Plover | Charadrius alexandrinus nivosus | • | • . | s | | - | |
| Mountain Plover | Charadrius montanus | С | - | s | | s | |
| Black Tern | Chlidonias niger surinamensis | | • | | S | | s |
| Common Ground-dove | Columbina passerina pallescens | | E | s | | • | |
| Elf Owl | Micrathene whitneyi whitneyi | | • | S | | | |
| Burrowing Owl | Athene cunicularia hypugaea | | | | s | | s |
| Mexican Spotted Owl | Strix occidentalis lucida | Т | | s | | ·s | |
| Lucifer Hummingbird | Calothorax lucifer | • | τ | s | | | - |
| Belted Kingfisher | Ceryle alcyon | | | s | - | - | |
| Southwestern Willow Flycatcher | Empidonax traillii extimus | Ε | Ε | s | - | - | |
| Loggerhead Shrike | Lanius ludovicianus | - | - | | s | | s |
| Bell's Vireo | Vireo bellii | - | Т | s | | | |
| Gray Vireo | Vireo vicinior | | T | S | _ | | |
| Sprague's Pipit | Anthus spragueii | | · | S | | • | |
| Baird's Sparrow | Ammodramus bairdii | - | Т | s | s | - | s |
| Varied Bunting | Passerina versicolor | - | T | s | ζ. | - | |
| | | | • | - | • | | |

New Mexican Wildlife of Concern - Sierra County Page 2 of 2

| Common Name | SCIENTIFIC NAME | FWS Esa | NM WCA | | BLM NM | NM Sen | FWS. SOC |
|---|--|------------|-----------|----|-----------|-----------|-------------|
| Western Small-footed Myotis Bat | Myotis ciliolabrum melanorhinus | - | - | - | s | s | s |
| Yuma Myotis Bat | Myotis yumanensis yumanensis | - | - | • | S | s | s |
| Occult Little Brown Myotis Bat | Myotis lucifugus occultus | • | - | s | s | S | S |
| Long-legged Myotis Bat | Myotis volans interior | - | - | - | S | s | S |
| Fringed Myotis Bat | Myotis thysanodes thysanodes | - | - | - | s | s | s |
| Long-eared Myotis Bat | Myotis evotis evotis | - | - | • | S | s | s |
| Pale Townsend's Big-eared Bat | Plecotus townsendii pallescens | • | - | S | S | s | s |
| Gunnison's Prairie Dog | Cynomys gunnisoni | • | - | - | • | s | - |
| Botta's Pocket Gopher (subspecies) | Thomomys bottae opulentus | • | - | • | • | s | - |
| Pecos River Muskrat | Ondatra zibethicus ripensis | • | - | • | S | s | s |
| Ringtail | Bassariscus astutus | - | • | s | • | s | • |
| Common Hog-nosed Skunk | Conepatus mesoleucus | - | • | • | • | s | • |
| Chihuahuan Pronghorn | Antilocapra americana mexicana | • | - | s | | • | • |
| Desert Bighorn Sheep | Ovis canadensis mexicana (endangered pops) | • | Ε | Ś | • | • | - |
| Mineral Creek Mountainsnail | Oreohelix pilsbryi | - | Ŧ | - | | | s |
| Southwest. Pearly Checkerspot Butterfly | Charidryas acastus sabina | - | • | • | • | • | S |
| Obsolete Viceroy Butterfly | Basilarchia archippus obsoleta | - | - | S, | | - | - |

NATIVE WILDLIFE APPARENTLY NO LONGER OCCURRING IN SIERRA COUNTY

American Eel Rio Grande Silvery Minnow Speckled Chub Loach Minnow

Loach Minnow Blue Sucker Gray Redhorse

Arizona Black-tailed Prairie Dog Hot Springs Cotton Rat Mexican Gray Wolf Grizzly Bear Jaguar Merriam's Elk Anguilla rostrata (extirpated from NH)

Hybognathus amarus

Macrhybopsis aestivalis aestivalis

Rhinichthys cobitis Cycleptus elongatus Moxostoma congestum

Cynomys ludovicianus arizonensis Sigmodon fulviventer goldmani (extinct) Canis lupus baileyi (extirpated from NM) Ursus arctos (extirpated from NM) Panthera onca arizonensis

Cervus elaphus merriami (extinct)

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Jennifer A. Salisbury CABINET SECRETARY

11 December 1998

Leslie Ellwood Dames and Moore 633 Seventeenth Street, Suite 2500 Denver, Colorado 80202-3625

Dear Ms. Ellwood:

This letter is regarding your request for updated information on rare plants in Sierra and Otero Counties, New Mexico. I am not aware of any new rare plant records for Sierra County. Three new plant taxa have recently been discovered in southeastern Otero County. Two are new varieties (in press) that occur on gypsum outcrops in townships T20S R17E, T21S R18E and T22S R18E. They will be named Anulocaulis lelosolenus var. howardii and Mentzelia humilis var. guadalupensis. Look for these new taxa to be published in the autumn 1999 edition of the journal Sida by Richard Spellenberg and Thomas Wootten. The third is a undescribed Cryptantha sp. nov. that is presently known only from Upper Dog Canyon in township T25S R20E. I will be conducting additional field surveys for this plant next May in the Brokeoff Mountains and intend to submit an article with its name and description to Sida sometime next summer. Therefore, this new species will not have a published name until about two years from now. Nevertheless, it is a very rare plant and should be considered in land management plans. If I can be of further help, contact me at (505)827-7865.

Best Regards.

Robert Sivinski bslvinski@state.nm.us



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna NE

Albuquerque, New Mexico 87113 Phone: (505) 348-2525 Fax: (505) 346-2542

January 5, 1999

Cons#2-22-98-1-109

Leslie Ellwood Project Biologist Dames & Moore 633 Seventeenth Street, Sulte 2500 Denver, Colorado 80202-3625

Dear Ms. Ellwood:

This responds to your letter dated November 20, 1998, requesting information on species Federally-listed or proposed to be listed as threatened or endangered occurring in Otero and Sierra Counties, New Mexico. It is our understanding that Dames & Moore, in conjunction with the Bureau of Land Management (BLM), is preparing an Environmental Impact Statement (EIS), as per National Environmental Policy Act guidance for an Fluid Minerals Resource Management Plan amendment to the existing Resource Management Plan (RMP). The proposed amendment describes fluid minerals resource planning activities to specifically address heightened interest in oil, gas, and geothermal leasing/development of BLM-managed public lands within the planning area (Otero and Sierra County).

National Environmental Policy Act requirements should be integrated with other planning and environmental review procedures so that all such procedures run concurrently rather than consecutively. As you may be aware, the U.S. Fish and Wildlife Service (Service) has recommended programmatic consultation over the effects of oil and gas leasing activities on federally-listed species (biological opinion on the Caballo RMP to Area Manager dated April 28, 1997; Cons#2-22-96-F-329). Additional information and resource concerns identified by the Service within the planning area may be found in the aforementioned biological opinion to assist in the development of the EIS document. The EIS may provide adequate consideration of Federally-listed species concerns for the selected alternative, consistent with the purposes of the Endangered Species Act (Act).

Although site-specific lists are unavailable, we have enclosed a current list of federally-endangered, threatened, candidate species, and species of concern that may be found in Otero and Sierra Countles. Under the Act, it is the responsibility of the Federal action agency or their designated representative to determine whether the proposed action "may affect" any listed or proposed species. We routinely recommend species-specific surveys during the proper breeding/flowering season and within appropriate habitat to address project-related impacts on these species. Although candidate species are not protected under the Act, the Service is required to monitor their status. If any candidate species or species of concern decline significantly, they could become listed

Ms. Leslie Ellwood

as threatened or endangered. Therefore, actions which may contribute to the listing of these species should be avoided. We recommend including candidates and species of concern in any necessary site surveys and/or assessments.

As provided in the Act at Section 7(a)(1), all Federal agencies shall, in consultation, utilize their authorities in the furtherance of the purposes of the Act by carrying out programs for the conservation of endangered and threatened species. Therefore, as we are concerned about ensuring adverse impacts from the proposed activities are sufficiently minimized or eliminated; we are also concerned about how such resource development activities occurring within the planning area will protect and promote the recovery of listed species. For example, the planning area, which includes Otero Mesa, contains large blocks of native yucca-grassland habitat which may be essential for the recovery of the federally-endangered northern aplomado falcon (Falco femoralis septentrionalis). Depending on the location, intensity, and/or proper implementation of proposed resource development activities, such actions may prevent the reestablishment of this species into one of the few remaining suitable habitat areas in the U.S. due to habitat fragmentation or alteration. Habitat loss, in part, is a factor originally associated with the decline and subsequent listing of this falcon as endangered.

The EIS should, at a minimum, address all direct, indirect, and cumulative impacts associated with the proposed actions on important fish and wildlife, such as federally-listed species and/or their habitats. This should include efforts to minimize or eliminate adverse impacts on such resources. Cumulative impacts should include all past, present, and reasonably foreseeable future actions of Federal, State, and private activities in and/or near the planning area forming the environmental baseline. In addition, a range of viable alternatives including the no-action alternative should be explored and objectively evaluated to provide clear options to the decisionmaker and the public.

We appreciate the opportunity to provide important pre-project planning information to assist in adequate consideration of New Mexico's unique heritage of rare wildlife and habitats. We recommend contacting the New Mexico Department of Game and Fish and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry and Resources Conservation Division for information concerning fish, wildlife, and plants of State concern. We look forward to reviewing a copy of the draft EIS, when it becomes available. If we can be of any further assistance, please contact Chris Perez of my staff at the letterhead address above or at telephone extension 119.

Sincerely,

Jennker Fowler-Props

Field Supervisor

Ms. Leslie Ellwood

3

Enclosure

cc: (w/o enc)

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico Director, New Mexico Forestry and Resources Conservation Division, Santa Fe, New Mexico

Mike Howard, BLM, Las Cruces, New Mexico

Threatened, Endangered, Candidate Species, and Species of Concern Otero and Sierra counties, New Mexico October 27, 1999

<u>Otero</u>

Northern aplomado falcon, Falco femoralis septentrionalis, E Kuenzler hedgehog cactus, Echinocereus fendleri var. kuenzleri, E Sacramento prickly poppy, Argemone pleiacantha ssp. pinnatisecta, E Todsen's pennyroyal, <u>Hedeoma todsenii</u>, E Southwestern willow flycatcher, Empidonax traillii extimus, E Interior least tern, Sterna antillarum athalassos, E Black-footed ferret, Mustela nigripes, E** Bald eagle, Haliaeetus leucocephalus, T Mexican spotted owl, Strix occidentalis lucida, T Sacramento Mountains thistle, Cirsium vinaceum, T Mountain plover, Charadrius montanus, PT Big free-tailed bat, Nyctinomops macrotis (= Tadarida m., T. molossa), SC Black-tailed prairie dog, Cynomys Iudovicianus, SC Cave myotis, Myotis velifer, SC Desert pocket gopher, Geomys bursarius arenarius, SC Fringed myotis, Myotis thysanodes, SC Gray-footed chipmunk, Tamias canipes, SC Greater western mastiff bat, Eumops perotis californicus, SC Guadalupe southern pocket gopher, Thomomys umbrinus guadalupensis, SC Long-legged myotis, Myotis volans, SC New Mexican meadow jumping mouse, Zapus hudsonius luteus, SC Occult little brown bat, Myotis lucifugus occultus, SC Pale Townsend's (= western) big-eared bat, Plecotus townsendii pallescens, SC Small-footed myotis, Myotis ciliolabrum, SC Spotted bat, Euderma maculatum, SC White Sands woodrat, Neotoma micropus leucophaea, SC American peregrine falcon, Falco peregrinus anatum, SC Arctic peregrine falcon, Falco peregrinus tundrius, SC (S/A) Baird's sparrow, Ammodramus bairdii, SC Black tern, Chlidonias niger, SC Ferruginous hawk, Buteo regalis, SC Loggerhead shrike, Lanius Iudovicianus, SC Northern goshawk, Accipiter gentilis, SC Western burrowing owl, Athene cunicularia hypugaea, SC White-faced ibis, Plegadis chihi, SC Yellow-billed cuckoo, Coccyzus americanus, SC

Sacramento Mountains checkerspot butterfly, <u>Euphydryas anicia cloudcrofti</u>, SC Sacramento Mountains silverspot butterfly, <u>Speyeria atlantis capitanensis</u>, SC

White Sands pupfish, Cyprinodon tularosa, SC

Texas horned lizard, Phrynosoma cornutum, SC

Sacramento mountain salamander, Aneides hardii, SC

Otero, Cont'd

Sacramento Mountains blue butterfly, <u>Icaricia icarioides</u> (new subspecies), SC Alamo beardtongue, <u>Penstemon alamosensis</u>, SC Desert night-blooming cereus, <u>Cereus greggii</u> var. <u>greggii</u>, SC Goodding's onion, <u>Allium gooddingii</u>, SC Guadalupe rabbitbrush, <u>Chrysothamnus nauseosus</u> var. <u>texensis</u>, SC Gypsum scalebroom, <u>Lepidospartum burgessii</u>, SC Sierra Blanca cliffdaisy, <u>Chaetopappa elegans</u>, SC Villard's pincushion cactus, <u>Escobaria villardii</u>, SC Wright's marsh thistle, <u>Cirsium wrightii</u>, SC

Sierra

Northern aplomado falcon, Falco femoralis septentrionalis, E Southwestern willow flycatcher, Empidonax traillii extimus, E Todsen's pennyroyal, Hedeoma todsenii, E w/CH Gila trout, Oncorhynchus gilae, E Black-footed ferret, Mustela nigripes, E** Bald eagle, Haliaeetus leucocephalus, T Mexican spotted owl, Strix occidentalis lucida, T Whooping crane, Grus americana, XN Chiricahua leopard frog, Rana chiricahuensis, C Black-tailed prairie dog, Cynomys Iudovicianus, SC* Fringed myotis, Myotis thysanodes, SC Greater western mastiff bat, Eumops perotis californicus, SC Long-eared myotis, Myotis evotis, SC Long-legged myotis, Myotis volans, SC Occult little brown bat, Myotis lucifugus occultus, SC Organ Mountains Colorado chipmunk, Eutamias quadrivittatus australis, SC Pale Townsend's (=western) big-eared bat, Plecotus townsendii pallescens, SC Southwestern otter, <u>Lutra canadensis sonorae</u>, SC Small-footed myotis, Myotis ciliolabrum, SC Spotted bat, Euderma maculatum, SC White Sands woodrat, Neotoma micropus leucophaea, SC Yuma myotis, Myotis yumanensis, SC American peregrine falcon, Falco peregrinus anatum, SC Arctic peregrine falcon, Falco peregrinus tundrius, SC (S/A) Baird's sparrow, Ammodramus bairdii, SC Black tern, Chlidonias niger, SC Ferruginous hawk, Buteo regalis, SC Loggerhead shrike, Lanius Iudovicianus, SC Northern goshawk, Accipiter gentilis, SC Western burrowing owl, Athene cunicularia hypugaea, SC

White-faced ibis, Plegadis chihi, SC

Sierra, cont'd

Yellow-billed cuckoo, Coccyzus americanus, SC
Desert sucker, Catostomus clarki, SC
Longfin dace, Agosia chrysogaster*, SC
Sonora sucker, Catostomus insignis, SC
Speckled dace, Rhinichthys osculus (Gila drainage), SC
White Sands pupfish, Cyprinodon tularosa, SC
Arizona southwestern toad, Bufo microscaphus microscaphus, SC
Texas horned lizard, Phrynosoma cornutum, SC
Desert viceroy butterfly, Limenitis archippus obsoleta, SC
Mineral Creek mountainsnail, Oreohelix pilsbryi, SC
Duncan's cory cactus, Coryphantha duncanii, SC
Pinos Altos fameflower, Talinum humile, SC
Sandhill goosefoot, Chenopodium cycloides, SC

Endangered

Index

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| C | _ | Littuarigered |
|----------|---|--|
| PE | = | Proposed Endangered |
| PE w/CH | = | Proposed Endangered with critical habitat |
| T | = | Threatened |
| PT | = | Proposed Threatened |
| PT w/CH | = | Proposed Threatened with critical habitat |
| PCH | = | Proposed critical habitat |
| С | = | Candidate Species (taxa for which the Service has sufficient information to propose that they be added to list of endangered and threatened species, but the listing action has been precluded by other higher priority listing activities). |
| SC | = | Species of Concern (taxa for which further biological research and field study are needed to resolve their conservation status) |
| S/A | = | Similarity of Appearance |
| * | = | Introduced population |
| XN | = | Nonessential experimental |
| ** | = | Survey should be conducted if project involves impacts to prairie dog towns or complexes of 200-acres or more for the Gunnison's prairie dog (Cynomys gunnisoni) and/or 80-acres or more for any subspecies of Black-tailed prairie dog (Cynomys ludovicianus). A complex consists of two or more neighboring prairie dog towns within 4.3 miles (7 kilometers) of each other. |
| | | |



United States Department of the Interior, RECE

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna NE Albuquerque, New Mexico 87113

Phone: (505) 346-2525 Fax: (505) 346-2542

October 27, 1999

Cons. #2-22-99-I-478

Memorandum

To:

Field Manager, Bureau of Land Management (BLM), Las Cruces, New Mexico

(Attn: Mike Howard)

From:

Field Supervisor, New Mexico Ecological Services Field Office, U.S. Fish and

Wildlife Service (Service), Albuquerque, New Mexico

Subject: Draft Resource Management Plan Amendment (RMPA)/Environmental Impact

Statement: Fluid Minerals Leasing Sierra/Otero Counties, New Mexico

This responds to your request for comments on a draft outline of RMPA alternatives provided during a meeting held at our field office on September 15, 1999. Specifically, we were asked to focus on the adequacy of the range of alternatives in addressing important fish and wildlife resources, including federally-listed species. The purpose of the RMPA is to address future oil, gas, and geothermal leasing and development on public lands in Sierra and Otero counties involving 2.4 million surface acres administered by the BLM and 3.7 acres of Federal mineral estate. Although environmental planning documents were prepared in the 1980s for minerals leasing within that area, increased nominations for oil/gas leasing, particularly in species sensitive areas has prompted a re-evaluation.

Due to some recent species status changes, we have enclosed an updated list of federally-endangered, threatened, candidate species, and species of concern that may occur within the study area. Although candidate species are not protected under the Act, the Service is required to monitor their status. If any candidate species or species of concern decline significantly, they could become listed as threatened or endangered. Therefore, actions which may contribute to the listing of these species should be avoided. We recommend including candidates and species of concern in any necessary site surveys and/or assessments.

It is our understanding that the RMPA will determine where and under what conditions oil, gas, and geothermal leasing, exploration, and development will be permitted within the 20-year plan period. In addition, these determinations will identify certain stipulations attached to minerals leases for the adequate consideration for sensitive resources. Three alternatives were submitted for our review and are defined as follows:

No-action alternative--the continuation of management according to the RMP on a case-by-case National Environmental Policy Act (NEPA) analysis; Alternative A--management emphasis on mitigation of impacts which would predictably result from case-by-case NEPA analysis and; Alternative B--management emphasis on avoidance of impacts and restrictions which would emphasize resource protection. The preferred alternative was identified as Alternative A.

According to 40 CFR part 1502.14, agencies must rigorously explore and evaluate all reasonable alternatives, including those alternatives outside the jurisdiction of the lead agency. NEPA alternatives should provide for a full spectrum of analysis and provide clear choices. In this case, all three alternatives appear closely related partly because all three choices result in the implementation of the proposed action. The preferred alternative provides for an emphasis on mitigation of impacts associated with the no-action alternative while Alternative B emphasizes resource protection. However, mitigation should probably not be regarded as a first step or as an emphasis of any particular alternative. Mitigation should be the last step in a process that begins first with adequate planning to avoid the impact.

The Service recommends an additional alternative that would include a true "no-action" alternative (e.g., no further mineral leasing activities). Inclusion of this analysis should provide a benchmark in order to allow decisionmakers the opportunity to compare the full magnitude of the environmental effects of each alternative, particularly in light of numerous identified resource issues and ongoing uses within the study area. And, this would exemplify an alternative outside the jurisdiction of the agency, which must be satisfied according to 40 CFR Part 1502.14. All of the alternatives, particularly the preferred alternative, should specifically discuss the range and types of stipulations available that would result in a clearer separation of each alternative. It is our understanding that the majority of interest in oil/gas leasing within the study area is on or near Otero Mesa, Otero County, New Mexico. This may also affect the choice of alternatives and should be addressed.

As indicated in our biological opinion dated April 28, 1997, on the BLM's resource management plan (Cons#2-22-96-F-329), the Service is primarily concerned with the existing effects from ongoing livestock grazing combined with habitat loss and fragmentation associated with extensive oil and gas leasing. This concern applies to desert grassland species that would include the federally-endangered northern aplomado falcon (*Falco femoralis septentrionalis*). Perhaps the most important decimating factor attributed to the decline of the aplomado falcon in the U.S. is habitat loss/degradation. In the U.S., Otero Mesa is one of the few remaining large expanses (particularly on public lands) of remnant Chihuahuan desert grassland. In the Southwest, the aplomado falcon depends on the desert grassland ecosystem and wherever it remains, is essential habitat for the falcon. Therefore, Otero Mesa (including McGregor Range) is a high priority recovery area for the falcon because of the combination of its overall size, relatively unfragmented natural condition, and its proximity to breeding aplomado populations in nearby Mexico. The falcon has historically (1917) and recently

Field Manager; BLM-Las Cruces Field Office

(1991,1993, 1997, and 1999) been reported within Otero County. The 1999 sighting was confirmed on Otero Mesa by a qualified ornithologist.

The 1990 aplomado falcon recovery plan states that, "...suitable habitat in the United States and Mexico should be identified and protected..." and goes on to stress that, "Particular attention should be directed toward suitable habitat on public lands." Section 7(a)(1) of the Act calls for all Federal agencies to utilize their authorities to further the purposes of the Act by carrying out programs for the conservation of endangered and threatened species. To date, no such programs are in effect for areas such as Otero Mesa that are now under increased pressure for oil/gas development. Additionally, according to 40 CFR Part 1500.1, the NEPA process is intended to help public officials make decisions that are based on understanding of environmental consequences, and take actions that protect, restore, and enhance the environment.

We strongly advise the BLM to develop a conservation program for listed species consistent with Section 7(a)(1) within the study area with an emphasis on the endangered aplomado falcon and Otero Mesa. The elements of such a plan could include delineating areas important for aplomado falcon recovery as well as other sensitive species/resources as areas of critical environmental concern. This should also assist you in compliance with Section 7(a)(2) (consultation requirement). Baseline analyses or the "affected environment" should take into account ongoing livestock grazing programs and associated facilities. Cumulative effects assessments should be projected over the plan's 20-year period. Assuming minerals leasing will be undertaken, a reasonable effort should be made to determine at what level of oil/gas development and other human activity may be tolerated without adversely affecting the aplomado falcon or the integrity of its habitat. Other special status and/or listed species concerns in the remaining portions of the analysis area should be addressed (if not already considered within the RMP) with respect to the proposed action.

We appreciate the opportunity to provide comments and look forward to continued cooperation on compliance with the National Environmental Policy Act and the Endangered Species Act. In reference to the above, please contact Chris Perez of my staff at (505) 346-2525, extension 119.

ennifer Fowler-Propst

Attachment

cc (w/o attachment):

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico

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Threatened, Endangered, Candidate Species, and Species of Concern
Otero and Sierra Counties, New Mexico
January 5, 1999

Otero

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Sacramento Mountains blue butterfly, <u>Icaricia Icarioides</u> new subspecies, SC

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Otero, continued

Alamo beardtongue, Penatemon alamosensis, SC
Desert night-blooming cereus, Careus gregaii var. gregaii, SC
Goodding's onion, Allium gooddingii, SC
Guadalupe rabbitbrush, Chrysothamnus nauseosus var. texensis, SC
Gypsum scalebroom, Lepidospartum burgessii, SC
Sierra Blanca cliffdalsy, Chaetopappa elegans, SC
Villard's pincushion cactus, Escobaria villardii, SC
Wright's marsh thistle, Cirsium wrightii, SC

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Sandhill goosefoot, Chenopodium cycloides, SC

Index

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|-------------------------|-----------|---|
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| PT W/CH | | Proposed Threatened with critical habitat |
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